

Aug 3, 1993

TITLE: Release-sustained micro-powder - contains reverse micelle of water-soluble polypeptide hormone(s) and biodegradable polymer

PRIORITY-DATA: 1992JP-0005987 (January 16, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 05194253 A	August 3, 1993	N/A	007	A61K037/02

INT-CL (IPC): A61K 9/50; A61K 37/02; A61K 37/30; A61K 37/66; A61K 47/42; A61K 47/44

ABTX:

In an example, erythropoietin (50mg) was dissolved in water (500 micron 1) contg. 0.5% of polyoxy ethylene sorbitan mono-oleater (Tween 80 (RTM), and stirred with oleic acid (10ml) to form reverse micelle soln. The soln was added to an (400ml) and centrifuged to give solid micelle, with 2 microns maximal size. The reverse micelle powder was dispersed in methylene chloride (500 micron 1) and stirred with addn. of copolymer of polylactic acid and polyglycolic acid (75/25) to form soln. The soln. was added to 0.5% PVa contg. water (200ml) and stirred to form emulsion. After removal of the organic solvent, the emulsion was freeze-dried and cleaned with water to form microcapsule with 100 micron of maximal siz